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PATENT
ATTORNEY DOCKET NO. 50195/008003

Certificate of Mailing: Date of Deposit: June 7, 2004

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Janet D'Annunzio-Ellis

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Janet D'Annunzio-Ellis

Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James M. Robl et al.

Art Unit: 1632

Serial No.: 09/988,115

Examiner: Deborah Crouch

Filed: November 16, 2001

Customer No.: 21559

Title: EXPRESSION OF XENOGENOUS (HUMAN) IMMUNOGLOBULINS
IN CLONED, TRANSGENIC UNGULATES

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the enclosed Form PTO-1449, copies of which are enclosed. A copy of the international search report in the counterpart PCT application is also enclosed.

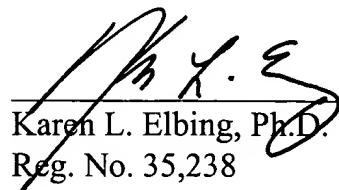
Submission of this statement is not a representation that a search has been made, nor is the inclusion of information in this statement an admission that the information is material to patentability.

This statement is being filed before the receipt of a first Office action on the merits.

If there are any additional charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 7 June 2004

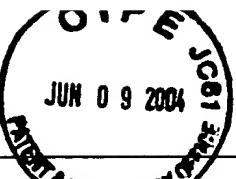

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Boston, MA 02110
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Sheet 1 of 9

| SUBSTITUTE FORM PTO-1449 <i>(TRADED)</i> | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | Attorney Docket No. | 50195/008003 | | |
|---|--------------------------------------|--|------------------------|---------------------|--------------|----------|------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | Serial No. | 09/988,115 | | | | |
| (37 C.F.R. § 1.98(b)) | | Applicants | James M. Robl et al. | | | | |
| | | Filing Date | November 16, 2001 | | | | |
| | | Group | 1632 | | | | |
| | | IDS Filed | June 7, 2004 | | | | |
| | | Customer No. | 21559 | | | | |
| U.S. PATENTS | | | | | | | |
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SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

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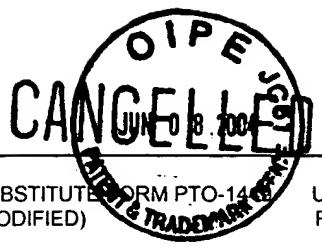
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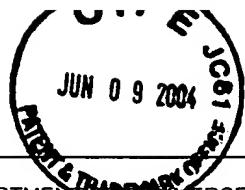
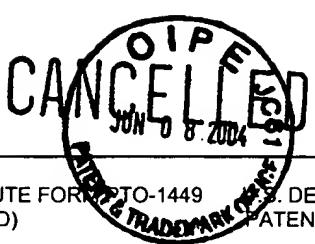


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|---|--|--|--|
| SUBSTITUTE FORM PTO-146 (MODIFIED) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | Attorney Docket No. Serial No. Applicants Filing Date Group IDS Filed Customer No. | 50195/008003 09/988,115 James M. Robl et al. November 16, 2001 1632 June 7, 2004 21559 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | (37 C.F.R. § 1.98(b)) | |

U.S. PATENTS

| Examiner's Initials | Patent No. or Patent Publication No. | Issue Date or Publication Date | Patentee or Applicant | Class | Subclass | Filing Date (If Appropriate) |
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SUBSTITUTE FORM PTO-1449
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STATEMENT BY APPLICANT
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(37 C.F.R. § 1.98(b))

Attorney Docket No. 50195/008003
Serial No. 09/988,115
Applicants James M. Robl et al.
Filing Date November 16, 2001
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IDS Filed June 7, 2004
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U.S. PATENTS

| Examiner's Initials | Patent No. or Patent Publication No. | Issue Date or Publication Date | Patentee or Applicant | Class | Subclass | Filing Date (If Appropriate) |
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| Examiner's Initials | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation (Yes/No) |
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| | WO 92/03918 | 03/19/92 | WIPO | | | No |
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| SUBSTITUTE FORM PTO-1449 (MODIFIED) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | Attorney Docket No. | 50195/008003 |
| | | | | Serial No. | 09/988,115 |
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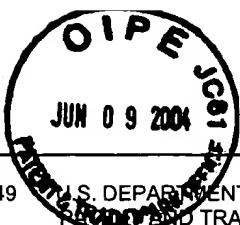
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| <p>SUBSTITUTE FORM PTO-1449 (MODIFIED)</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</p> <p>(37 C.F.R. § 1.98(b))</p> | | <p>Attorney Docket No. 50195/008003</p> <p>Serial No. 09/988,115</p> <p>Applicants James M. Robl et al.</p> <p>Filing Date November 16, 2001</p> <p>Group 1632</p> <p>IDS Filed June 7, 2004</p> <p>Customer No. 21559</p> |
| <p>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)</p> <p>Ishida et al., "Production of a Diverse Repertoire of Human Antibodies In Genetically Engineered Mice," <i>Microbiol. Immunol.</i> 42:143-150 (1998).</p> <p>Jonak et al., "Manipulation of Human B Cells to Confer Immortality," <i>Hum. Antibodies Hybridomas</i> 3:177-185 (1992).</p> <p>Joziasse et al., "Bovine Alpha 1 3-Galactosyltransferase: Isolation and Characterization of a cDNA Clone. Identification of Homologous Sequences in Human Genomic DNA," <i>J. Biol. Chem.</i> 264:14290-14297 (1989).</p> <p>Joziasse et al., "Characterization of an $\alpha 1$-3-Galactosyltransferase Homologue on Human Chromosome 12 That Is organized As A Processed Pseudogene," <i>J. Biol. Chem.</i> 266:6991-6998 (1991).</p> <p>Kitamura et al., "A B Cell-Deficient Mouse by Targeted Disruption of the Membrane Exon of the Immunoglobulin Mu Chain Gene," <i>Nature</i> 350:423-426 (1991).</p> <p>Knight et al., "Genetic Engineering of Bovine Ig. Construction and Characterization of Haptens-Binding Bovine/Murine Chimeric IgE, IgA, IgG1, IgG2, and IgG3 Molecules," <i>J. Immunol.</i> 140:3654-3659 (1988).</p> <p>Kuroiwa et al., "Manipulation of Human Minichromosomes to Carry Greater Than Megabase-Sized Chromosome Inserts," <i>Nat. Biotechnol.</i> 18:1086-1090 (2000).</p> <p>Lansford et al., "Ig Heavy Chain Class Switching in Rag-Deficient Mice," <i>Int. Immunol.</i> 10:325-332 (1998).</p> <p>Lohka et al., "Formation In Vitro of Sperm Pronuclei and Mitotic Chromosomes Induced By Amphibian Ooplasmic Components," <i>Science</i> 220:719-721 (1983).</p> <p>Lohka et al., "Induction of Nuclear Envelope Breakdown, Chromosome Condensation And Spindle Formation In Cell-Free Extracts," <i>J. Cell Biol.</i> 101:518-523 (1985).</p> <p>Loupart et al., "Differential Stability of a Human Mini-Chromosome in Mouse Cell Lines," <i>Chromosoma</i> 107:255-259 (1998).</p> <p>Martin et al., "Engraftment of Human Lymphocytes and Thyroid Tissue into Scid and Rag2-Deficient Mice: Absent Progression of Lymphocytic Infiltration," <i>J. Clin. Endocrinol. Metab.</i> 79:716-723 (1994).</p> <p>Mazurier et al., "A Novel Immunodeficient Mouse Model—Rag2 x Common Cytokine Receptor Gamma Chain Double Mutants—Requiring Exogenous Cytokine Administration for Human Hematopoietic Stem Cell Engraftment," <i>J. Interferon cytokine Res.</i> 19:533-541 (1999).</p> <p>Miake-Lye et al., "Induction of Early Mitotic Events in a Cell-Free System," <i>Cell</i> 41:165-175 (1985).</p> <p>Mocikat, "Improving the Expression of Chimeric Antibodies Following Homologous Recombination in Hybridoma Cells," <i>J. Immunol. Methods</i> 225:185-189 (1999).</p> <p>Newport, "Nuclear Reconstitution In Vitro: Stages of Assembly Around Protein-Free DNA," <i>Cell</i> 48:205-217 (1987).</p> <p>Polejaeva et al., "New Advances In Somatic Cell Nuclear Transfer: Application In Transgenesis," <i>Theriogenology</i> 53:117-126 (2000).</p> | | |
| EXAMINER | DATE CONSIDERED | |
| <p>EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.</p> | | |



Sheet 9 of 9

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| SUBSTITUTE FORM PTO-1449 (MODIFIED) | | Attorney Docket No. | 50195/008003 |
| | | Serial No. | 09/988,115 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | Applicants | James M. Robl et al. |
| | | Filing Date | November 16, 2001 |
| | | Group | 1632 |
| (37 C.F.R. § 1.98(b)) | | IDS Filed | June 7, 2004 |
| | | Customer No. | 21559 |
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